BS ISO 5751-3:2010

BSI Standards Publication

Motorcycle tyres and rims (metric series)

Part 3: Range of approved rim contours

National foreword

This British Standard is the UK implementation of ISO 5751-3:2010. It supersedes BS ISO 5751-3:2004 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee AUE/4, Tyres and wheels for motor vehicles.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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INTERNATIONAL STANDARD

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Motorcycle tyres and rims (metric series) —

Part 3:
Range of approved rim contours

Pneumatiques et jantes pour motocycles (séries millimétriques) —

Partie 3: Gamme des profils de jante homologués

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Foreword

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 5751-3 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 10, *Cycle, moped, motorcycle tyres and rims*.

This sixth edition cancels and replaces the fifth edition (ISO 5751-3:2004), which has been technically revised.

ISO 5751 consists of the following parts, under the general title *Motorcycle tyres and rims (metric series)*:

— *Part 1: Design guides*

— *Part 2: Tyre dimensions and load-carrying capacities*

— *Part 3: Range of approved rim contours*

INTERNATIONAL STANDARD **ISO 5751-3:2010(E)**

Motorcycle tyres and rims (metric series) —

Part 3:
Range of approved rim contours

1 Scope

This part of ISO 5751 specifies the approved rim contours for motorcycle rims on which metric series motorcycle tyres are mounted.

NOTE See ISO 4249 for motorcycle tyres and rims (code-designated series) of rim diameter codes 13 and above, and ISO 6054 for those of codes 12 and below.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4249-3, *Motorcycle tyres and rims (code-designated series) — Part 3: Rims*

ISO 5751-2, *Motorcycle tyres and rims (metric series) — Part 2: Tyre dimensions and load-carrying capacities*

ISO 6054-2:1990, *Motorcycle tyres and rims (Code-designated series) — Diameter codes 4 to 12 — Part 2: Rims*

3 Approved rim contours

See Tables 1 and 2 for the range of permitted rims and approved rim contour codes, and for the coefficients and tyre nominal section widths used to calculate minimum and maximum rim widths.

Table 1 — Coefficients for approved rims

Series	Tyre construction	Coefficient,	
		minimum, R_{min}	maximum, R_{max}
100 to 80	Diagonal and bias-belted	0,50	0,70
	Radial	0,60	0,70
75	Diagonal and bias-belted	0,55	0,75
	Radial	0,65	0,75
70 to 60	Diagonal and bias-belted	0,60	0,80
	Radial	0,70	0,80
55 and 50	Diagonal and bias-belted	0,70	0,85
	Radial	0,75	0,85
45 to 30	Radial	0,85	0,95

Minimum rim width = $S_N \times R_{min}$

Maximum rim width = $S_N \times R_{max}$

where S_N is the tyre nominal section width (see Table 2).

Calculated values shall be rounded to the nearest standardized rim widths as specified in ISO 4249-3.

The dimensions of rim contours, diameter details and complete marking of rims of nominal rim diameter shall be in accordance with

— ISO 4249-3 for codes 13 and above, and

— ISO 6054-2 for codes 12 and below.

The recommended rims correspond to the measuring rim widths (R_m) specified in ISO 5751-2.

The design new tyre section width, S, and the maximum overall width in service, W_{max}, specified in ISO 5751-2 will change 1 mm for each 0.1 code (2,5 mm) change in rim width from the recommended (measuring) rim width.

Table 2 — Approved rim contours

Tyre nominal section width S_N	Approved rims[abc]
30, 35, 40 and 45 series	
210	MT7.00; MT7.50; MT8.00
240	MT8.00; MT8.50; MT9.00
250	MT8.50; MT9.00; MT9.50
260	MT8.50; MT9.00; MT9.50
280	MT9.50; MT10.00; MT10.50
300	MT10.00; MT10.50: MT11.00
330	MT11.00; MT11.50; MT12.00; MT12.50
360	MT12.00; MT12.50; MT13.00; MT13.50
55 and 50 series	
130	MT3.75; MT4.00
140	MT4.00; MT4.25; MT4.50
150	MT4.50; MT5.00
160	MT4.50; MT5.00
170	MT5.00; MT5.50
180	(MT5.00); MT5.50; MT6.00
190	MT5.50; MT6.00
200	MT6.00; MT6.25; MT6.50
210	MT6.25; MT6.50; MT7.00
240	MT7.00; MT7.50; MT8.00
60, 65 and 70 series	
80	(MT1.85); (1.85); 2.15; MT2.15; 2.50; MT2.50
100	(2.50); (MT2.50); 2.75; MT2.75; MT3.00
110	(2.50); (MT2.50); (2.75); (MT2.75); MT3.00; MT3.50
120	(2.75); (MT2.75); (MT3.00); MT3.50; MT3.75
130	(MT3.00); MT3.50; MT3.75; MT4.00
140	(MT3.50); MT3.75; MT4.00; MT4.25; MT4.50
150	(MT3.50); (MT3.75); MT4.00; MT4.25; MT4.50
160	(MT3.75); (MT4.00); MT4.25; MT4.50; MT5.00
170	(MT4.00); MT4.25; MT4.50; MT5.00; MT5.50
180	(MT4.25); (MT4.50); MT5.00; MT5.50
190	(MT4.50); MT5.00; MT5.50; MT6.00
200	(MT4.75); (MT5.00); MT5.50; MT6.00; MT6.25
210	(MT5.00); (MT5.50); MT6.00; MT6.25; MT6.50
230	(MT5.50); (MT6.00); MT6.25; MT6.50; MT7.00
75 series	
	(MT3.00); MT3.50; MT3.75; MT4.00; MT4.75

Table 2 (*continued*)

Tyre nominal section width S_N	Approved rims[abc]
80, 90 and 100 series	
50	1.20; 1.40
60	(1.20); 1.40; 1.50; MT1.50; 1.60; MT1.60
70	(1.40); (1.50); (MT1.50); 1.60; MT1.60; 1.85; MT1.85
80	(1.60); (MT1.60); 1.85; MT1.85; 2.15; MT2.15
90	(1.85); (MT1.85); 2.15; MT2.15; 2.50; MT2.50
100	(2.15); (MT2.15); 2.50; MT2.50; 2.75; MT2.75
110	(2.15); (MT2.15); 2.50; MT2.50; 2.75; MT2.75; 3.00; MT3.00
120	(2.50); (MT2.50); 2.75; MT2.75; 3.00; MT3.00
130[d]	(2.50); (MT2.50); (2.75); (MT2.75); 3.00; MT3.00; MT3.50
140[d]	(2.75); (MT2.75); (3.00); (MT3.00); MT3.50; MT3.75
150[d]	(3.00); (MT3.00); MT3.50; MT3.75; MT4.00; MT4.25
160	(MT3.50); MT3.75; MT4.00; MT4.25; MT4.50
170	(MT3.50); (MT3.75); MT4.00; MT4.25; MT4.50
180	(MT3.50); (MT3.75); (MT4.00); MT4.25; MT4.50; MT5.00

[a] Recommended rims are the measuring rims.

[b] Care should be taken, especially when either tyres or rims, or both, are not marked with the suffix M/C, not to fit motorcycle tyres to rims designed for tyres for other types of service (e.g. passenger cars or agricultural machines). Cylindrical bead-seat rims are for tube-type tyres only.

[c] Rims within parentheses are permitted for diagonal-ply and bias-belted tyres only.

[d] For tyre sizes 130/90-16, 140/90-16 and 150/80-16, a 3.00D rim with a specified rim diameter of 405,6 mm ± 0,4 mm and with humps is permitted (see ISO 6054-2 for contour dimensions).

Bibliography

[1] ISO 4249-1:1985, *Motorcycle tyres and rims (Code-designated series) — Part 1: Tyres*

[2] ISO 4249-2:1990, *Motorcycle tyres and rims (Code-designated series) — Part 2: Tyre load ratings*

[3] ISO 6054-1:1994, *Motorcycle tyres and rims (Code-designated series) — Diameter codes 4 to 12 — Part 1: Tyres*

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